

ABSTRACT

A machine for reciprocating a needle has a frame having a contact point, an armature bar coupled to the needle, support means for supporting the armature bar on the frame for oscillation thereon, and electromagnet means supported on the frame for oscillating the armature. A control circuit is provided for energizing the electromagnetic means, with switching means coupled at one end to the armature bar for providing electrical contact between the control circuit and the electromagnetic means. Dampening means is provided for increasing the frequency of the oscillations of the armature bar.